

Bay Area Air Quality Management District

939 Ellis Street
San Francisco, CA 94109
(415) 771-6000

Proposed

MAJOR FACILITY REVIEW PERMIT

Issued To:
Gaylord Container Corporation
Facility #A2180

Facility Address:
2301 Wilbur Avenue
Antioch, CA 94509

Mailing Address:
P.O. Box 10
Antioch, CA 94509

Responsible Official
Randy Nebel, General Manager
(510) 779-3201

Facility Contact
Andrew T. Jones, Process Engineer
(510) 779-3385

Type of Facility: Paper Mill
Primary SIC: 2631
Product: Recycled Paper

BAAQMD Permit Division Contact:
Robert T. Hull

ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Ellen Garvey, Executive Officer/Air Pollution Control Officer

Date

Draft

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I. STANDARD CONDITIONS

A. Administrative Requirements

The permit holder shall comply with all applicable requirements in the following regulations:

BAAQMD Regulation 1 - General Provisions and Definitions

(as amended by the District Board on 10/7/98);

SIP Regulation 1 - General Provisions and Definitions

(as approved by EPA through 8/27/99);

BAAQMD Regulation 2, Rule 1 - Permits, General Requirements

(as amended by the District Board on 10/7/98);

SIP Regulation 2, Rule 1 - Permits, General Requirements

(as approved by EPA through 2/25/99);

BAAQMD Regulation 2, Rule 2 - Permits, New Source Review

(as amended by the District Board on 10/7/98);

SIP Regulation 2, Rule 2 - Permits, New Source Review and Prevention of Significant Deterioration

(as approved by EPA through 2/25/99);

BAAQMD Regulation 2, Rule 4 - Permits, Emissions Banking

(as amended by the District Board on 10/7/98); and

SIP Regulation 2, Rule 4 - Permits, Emissions Banking

(as approved by EPA through 2/25/99).

BAAQMD Regulation 2, Rule 6 - Permits, Major Facility Review

(as amended by the District Board on 10/20/99).

B. Conditions to Implement Regulation 2, Rule 6, Major Facility Review

1. This Major Facility Review Permit was issued on [_____] and expires on [when issued, enter 5th anniversary of issue date]. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than [when issued, enter date 6 months prior to permit expiration date] and no earlier than [when issued, enter date 12 months prior to expiration date]. **If a complete application for renewal has not been submitted in accordance with these deadlines, the facility may not operate after** [when issued, enter 5th anniversary of issue date]. (Regulation 2-6-307, 404.2, & 409.6; MOP Volume II, Part 3, §4.2)
2. The permit holder shall comply with all conditions of this permit. The permit consists of this document and all appendices. Any non-compliance with the terms and conditions of this permit will constitute a violation of the law and will be grounds for enforcement action; permit termination, revocation and re-issuance, or modification; or denial of a permit renewal application. (Regulation 2-6-307; MOP Volume II, Part 3, §4.11)
3. In the event any enforcement action is brought as a result of a violation of any term or condition of this permit, the fact that it would have been necessary for the permittee to halt or reduce the permitted activity in order to maintain compliance with such term

or condition shall not be a defense to such enforcement action.

I. Standard Conditions

(MOP Volume II, Part 3, §4.11)

4. This permit may be modified, revoked, reopened and reissued, or terminated for cause. (Regulation 2-6-307, 409.8, 415; MOP Volume II, Part 3, §4.11)
5. The filing of a request by the facility for a permit modification, revocation and re-issuance, or termination, or of a notification of planned changes or anticipated non-compliance does not stay the applicability of any permit condition. (Regulation 2-6-409.7; MOP Volume II, Part 3, §4.11)
6. This permit does not convey any property rights of any sort, nor any exclusive privilege. (Regulation 2-6-409.7; MOP Volume II, Part 3, §4.11)
7. The permit holder shall supply within 30 days any information that the District requests in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. (Regulation 1-441, Regulation 2-6-409.4 & 501; MOP Volume II, Part 3, §4.11)
8. Any records required to be maintained pursuant to this permit which the permittee considers to contain proprietary or trade secret information shall be prominently designated as such. Copies of any such proprietary or trade secret information which are provided to the District shall be maintained by the District in a locked confidential file, provided, however, that requests from the public for the review of any such information shall be handled in accordance with the District's procedures set forth in Section 11 of the District Administrative Code. (Regulation 2-6-419; MOP Volume II, Part 3, §4.11)
9. Proprietary or trade secret information provided to EPA will be subject to the requirements of 40 CFR Part 2, Subpart B - Public Information, Confidentiality of Business Information. (40 CFR Part 2)
10. The emissions inventory submitted with the application for this Major Facility Review Permit is an estimate of actual emissions for the time period stated and is included only as one means of determining applicable requirements for emission sources. It does not establish, or constitute a basis for establishing, any new emission limitations. (MOP Volume II, Part 3, §4.11)

C. Requirement to Pay Fees

The permit holder shall pay annual fees in accordance with District Regulation 3, including Schedule P. (Regulation 2-6-402 & 409.13, Regulation 3; MOP Volume II, Part 3, §4.12)

D. Inspection and Entry

Access to Facility: The permit holder shall provide reasonable access to the facility and equipment which is subject to this permit to the APCO and/or to his or her designee. (Regulation 1-440, Regulation 2-6-409.3; MOP Volume II, Part 3, §4.14)

E. Records

Notwithstanding the specific wording in any requirement, all records for federally enforceable requirements shall be maintained for at least five years from the date of entry. (Regulation 2-6-501, Regulation 3; MOP Volume II, Part 3, §4.7)

I. Standard Conditions

F. Monitoring Reports

Reports of all required monitoring must be submitted to the District at least once every six months, except where an applicable requirement specifies more frequent reporting. The first reporting period for this permit shall be [date of issuance] to [six months later]. The report shall be submitted by [one month after end of reporting period]. Subsequent reports shall be for the following periods: [____ 1st through ____ 30th or 31st] and [____ 1st through ____ 30th or 31st], and are due on the last day of the month after the end of the reporting period. All instances of non-compliance shall be clearly identified in these reports. The reports shall be certified by the responsible official as true, accurate, and complete. In addition, all instances of non-compliance with the permit shall be reported in writing to the District's Compliance and Enforcement Division within 10 calendar days of the discovery of the incident. Within 30 calendar days of the discovery of any incident of non-compliance, the facility shall submit a written report including the probable cause of non-compliance and any corrective or preventative actions. The reports shall be sent to the following address:

Director of Compliance and Enforcement
Bay Area Air Quality Management District
939 Ellis Street
San Francisco, CA 94109
Attn: Title V Reports

(Regulation 2-6-502, Regulation 3; MOP Volume II, Part 3, §4.7)

G. Compliance Certification

Compliance certifications shall be submitted annually by the responsible official of this facility to the Bay Area Air Quality Management District and to the Environmental Protection Agency. The certification period will be ____ 1st to ____ 30th or 31st. The certification shall be submitted by ____ 30th or 31st of each year. The certification must list each applicable requirement, the compliance status, whether compliance was continuous or intermittent, the method used to determine compliance, and any other specific information required by the permit. The permit holder may satisfy this requirement through submittal of District-generated Compliance Certification forms. The certification should be directed to the District's Compliance and Enforcement Division at the address above, and a copy of the certification should be sent to the Environmental Protection Agency at the following address:

Director of the Air Division
USEPA, Region IX
75 Hawthorne Street
San Francisco, CA 94105
Attention: Air-3

I. Standard Conditions

(MOP Volume II, Part 3, §4.5 and 4.15)

H. Emergency Provisions

1. The permit holder may seek relief from enforcement action in the event of a breakdown, as defined by Regulation 1-208 of the District's Rules and Regulations, by following the procedures contained in Regulations 1-431 and 1-432. The District will thereafter determine whether breakdown relief will be granted in accordance with Regulation 1-433. (MOP Volume II, Part 3, §4.8)
2. The permit holder may seek relief from enforcement action for a violation of any of the terms and conditions of this permit caused by conditions beyond the permit holder's reasonable control by applying to the District's Hearing Board for a variance pursuant to Health and Safety Code Section 42350. The Hearing Board will determine after notice and hearing whether variance relief should be granted in accordance with the procedures and standards set forth in Health and Safety Code Section 42350 et seq. Any variance granted by the Hearing Board from any term or condition of this permit, which lasts longer than 90 days will be subject to EPA approval. (MOP Volume II, Part 3, §4.8)
3. Notwithstanding the foregoing, the granting by the District of breakdown relief or the issuance by the Hearing Board of a variance will not provide relief from federal enforcement. (MOP Volume II, Part 3, §4.8)

I. Severability

In the event that any provision of this permit is invalidated by a court or tribunal of competent jurisdiction, or by the Administrator of the EPA, all remaining portions of the permit shall remain in full force and effect. (Regulation 2-6-409.5; MOP Volume II, Part 3, §4.10)

II. EQUIPMENT LIST

Table II A - Permitted Sources

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits.

S-#	Description	Make or Type	Model	Capacity
S-1	Steam Generator Boiler (natural gas)	Babcock & Wilcox	N/A	300,000 lb/hr, 434 MMBTU/hr
S-31	Lime Storage Tank	Day-Ti Storage Tank	N/A	2090 cu ft
S-32	Silo #1 - Starch Storage	N/A	N/A	74 tons
S-33	Silo #2 - Starch Storage	N/A	N/A	74 tons
S-34	Silo #3 - Starch Storage	N/A	N/A	74 tons
S-35	Gas Turbine (natural gas, diesel fuel)	General Electric	MS 6001	37.1 MW, 457 MMBTU/hr
S-36	Duct Burners (natural gas)	Coen	Low NOx	146 MMBTU/hr
S-38	Equalization Pond	N/A	N/A	7.5 million gallons/day
S-39	Unox Water Treatment, East	Union Carbide	Unox	3.0 million gallons/day
S-40	Unox Water Treatment, West	Union Carbide	Unox	3.0 million gallons/day
S-41	Secondary Clarifier, East	Dorr Oliver	N/A	3.0 million gallons/day
S-42	Secondary Clarifier, West	Dorr Oliver	N/A	3.0 million gallons/day
S-43	Sludge Holding Tank	N/A	N/A	30,000 gallons
S-44	Sludge Dewatering Press	Tait Andritz	SDM 80	25 tons/day
S-45	Sludge Dewatering Press	Filtec	FT-75 RT	60 tons/day
S-46	Sandblasting Pot	Clemco	14064	33 pounds/hr
S-47	Paint Spray Operation - Air Compressor with Spray Guns	General Electric	MS6001A	110 psi
S-48	Sludge Dewatering Press	Ashbrook	KP657	1.25 tons/hr
S-49	Primary Effluent Treatment Clarifier	N/A	N/A	8 million gallons/day

Table II B - Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Required Efficiency
A-7	Baghouse	S-31	BAAQMD 6-301, 6-310	All Periods of Operation	Ringelmann #1; 0.15 gr/dscf
A-8	Baghouse	S-32, S-33, S-34	BAAQMD 6-301, 6-310	All Periods of Operation	Ringelmann #1; 0.15 gr/dscf

III. GENERALLY APPLICABLE REQUIREMENTS

The permit holder shall comply with all applicable requirements, including those specified in the BAAQMD and SIP Rules and Regulations and other federal requirements cited below. These requirements apply in a general manner to the facility and/or to sources exempt from the requirement to obtain a District Permit to Operate. The District has determined that these requirements would not be violated under normal, routine operations, and that no additional periodic monitoring or reporting to demonstrate compliance is warranted. In cases where a requirement, in addition to being generally applicable, is also specifically applicable to one or more sources, the requirement and the source are also included in Section IV, Source-Specific Applicable Requirements, of this permit.

The dates in parenthesis in the Title column identify the versions of the regulations being cited and are, as applicable:

1. BAAQMD regulation(s): The date(s) of adoption or most recent amendment of the regulation by the District Board
2. Any federal requirement, including a version of a District regulation that has been approved into the SIP: The most recent date of EPA approval of any portion of the rule, encompassing all actions on the rule through that date

The full language of SIP requirements is included in Appendix A of this permit if the SIP requirement is different from the current BAAQMD requirement.

NOTE:

There are differences between the current BAAQMD rule and the version of the rule in the SIP. For specific information, contact the District's Rule Development Section of the Enforcement Division. All sources must comply with both versions of the rule until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

**Table III
Generally Applicable Requirements**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
BAAQMD Regulation 1	General Provisions and Definitions (10/7/98)	N
SIP Regulation 1	General Provisions and Definitions (8/27/99)	Y
BAAQMD Regulation 4	Air Pollution Episode Plan (3/20/91)	N
SIP Regulation 4	Air Pollution Episode Plan (8/06/90)	Y
BAAQMD Regulation 5	Open Burning (11/2/94)	N
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)	N

III. Generally Applicable Requirements

Table III
Generally Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
BAAQMD Regulation 7	Odorous Substances (3/17/82)	N
BAAQMD Regulation 8, Rule 1	Organic Compounds - General Provisions (6/15/94)	Y
BAAQMD Regulation 8, Rule 3	Organic Compounds - Architectural Coatings (12/20/95)	Y
BAAQMD Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (12/20/95)	N
SIP Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (8/21/92)	Y
BAAQMD Regulation 8, Rule 51	Organic Compounds - Adhesive and Sealant Products (12/20/95)	N
BAAQMD Regulation 11, Rule 2	Hazardous Pollutants - Asbestos Demolition, Renovation and Manufacturing (12/4/91)	Y
BAAQMD Regulation 12, Rule 4	Miscellaneous Standards of Performance - Sandblasting (7/11/90)	Y

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

The permit holder shall comply with all applicable requirements, including those specified in the BAAQMD and SIP Rules and Regulations and other federal requirements cited below. The requirements cited in the following tables apply in a specific manner to the indicated source(s).

The dates in parenthesis in the Title column identify the versions of the regulations being cited and are, as applicable:

1. BAAQMD regulation(s): The date(s) of adoption or most recent amendment of the regulation by the District Board
2. Any federal requirement, including a version of a District regulation that has been approved into the SIP: The most recent date of EPA approval of any portion of the rule, encompassing all actions on the rule through that date

The full text of each permit condition cited is included in Section VI, Permit Conditions, of this permit. The full language of SIP requirements is included in Appendix A of this permit if the SIP requirements are different from the current BAAQMD requirements. All other text may be found in the regulations themselves.

Table IV-A
Source-specific Applicable Requirements
S-1: Steam Generator Boiler

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (10/7/98)		
1-520	Continuous Emission Monitoring	Y	
1-520.1	Steam Generators Rated 250 MMBTU or More Per Hour	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann #1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	

IV. Source-specific Applicable Requirements

Table IV-A
Source-specific Applicable Requirements
S-1: Steam Generator Boiler

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-310.3	Heat Transfer Operations	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-302	General Emissions Limitation	Y	
BAAQMD Regulation 9, Rule 7	Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Industrial, Institutional, and Commercial Boilers, Steam Generators, and Process Heaters (9/16/92)		
9-7-301	Emission Limits – Gaseous Fuels	Y	
9-7-301.1	Performance Standard, NO _x	Y	
9-7-301.2	Performance Standard, CO	Y	
9-7-503	Records	Y	
9-7-503.4	Source Test Records and Record Retention	Y	
9-7-603	Compliance Determination	Y	
BAAQMD Manual of Procedures, Volume V	Continuous Emission Monitoring Policy and Procedures (1/20/82)	Y	
40 CFR 60 Part 60,	Standards of Performance for New Stationary Sources (12/23/71)	Y	
Subpart A	General Provisions	Y	
60.7	Notification and record keeping	Y	
60.8	Performance Tests	Y	
60.11	Compliance with standards and maintenance requirements	Y	
60.12	Circumvention	Y	
60.13	Monitoring Requirements	Y	
60.13(a)	Continuous monitoring systems	Y	
60.13(b)	Installation deadline	Y	
60.13(d)(1)	Daily calibration checks	Y	
60.13(e)	Continuous operation	Y	
60.13(f)	Representative measurements	Y	

IV. Source-specific Applicable Requirements

Table IV-A
Source-specific Applicable Requirements
S-1: Steam Generator Boiler

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 60 Subpart D	Standards of Performance for Fossil-Fuel-Fired Steam Generators (7/25/77)		
60.42	Performance Standards, Particulate Matter	Y	
60.42 (a)(1)	PM Mass Emission Rate	Y	
60.42 (a)(2)	PM Opacity Limit	Y	
60.44	Performance Standards, NOx	Y	
60.44 (a)(1)	NOx Limit – Gaseous Fuels	Y	
60.45	Monitoring Requirements	Y	
60.45(a)	Continuous monitoring of NOx and Oxygen or CO2	Y	
60.45(b)(1)	Continuous monitoring of opacity and SO2 not required for steam generating units that burn only gaseous fossil fuels	Y	
40 CFR 60 Subpart Db	Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units (12/16/87)		
60.44b (a)(1)	Performance Standard, NOx	Y	
60.46b (c)	Performance Testing, NOx	Y	
BAAQMD Cond #11264			
part 1	Natural Gas Fuel Requirement [BACT]	Y	
part 2	NOx Limit [BACT]	Y	
part 2 (a)	Definition of Startup Period [BACT]	Y	
part 2 (b)	Definition of Shutdown Period [BACT]	Y	
part 3	CO Limit [BACT]	Y	
part 3 (a)	Definition of Startup Period [BACT]	Y	
part 3 (b)	Definition of Shutdown Period [BACT]	Y	
part 4	Ammonia Limit [Toxic Risk Management]	N	
part 5	Natural Gas Fuel Usage Limit [Cumulative Increase]	Y	
part 6	SCR Abatement Requirement [BACT]	Y	
part 7	Limit on Total Startup Time Allowed to be Exempted from Emissions Limits [Cumulative Increase]	Y	
part 8	Limit on Total Shutdown Time Allowed to be Exempted from Emissions Limits [Cumulative Increase]	Y	

IV. Source-specific Applicable Requirements

Table IV-A
Source-specific Applicable Requirements
S-1: Steam Generator Boiler

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
part 9	C.E.M. Requirement [BACT, Regulation 1-520.1]	Y	
part 10	Fuel Metering Requirement [Cumulative Increase]	Y	
part 11	Recordkeeping Requirements [BACT, Cumulative Increase]	Y	

Table IV-B
Source-Specific Applicable Requirements
S-31: Lime Storage Tank

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann #1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Cond #17195			
part 1	Particulate Abatement Requirement [Regulation 2-1-403]	Y	
part 2	Annual Visible Emissions Inspection [Regulation 2-1-403]	Y	
part 3	Recordkeeping [Regulation 2-6-501]	Y	

IV. Source-specific Applicable Requirements

Table IV-C
Source-Specific Applicable Requirements
S-32, S-33, S-34: Starch Storage Silos #1, #2, and #3

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann #1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Cond #17196			
part 1	Particulate Abatement Requirement [Regulation 2-1-403]	Y	
part 2	Annual Visible Emissions Inspection [Regulation 2-1-403]	Y	
part 3	Recordkeeping [Regulation 2-6-501]	Y	

Table IV-D
Source-specific Applicable Requirements
S-35: Gas Turbine

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (10/7/98)		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Monitors pursuant to Regulation 2-1-403	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann No. 1 Limitation	Y	

IV. Source-specific Applicable Requirements

Table IV-D
Source-specific Applicable Requirements
S-35: Gas Turbine

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operations	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-302	General Emissions Limitation	Y	
9-1-304	Fuel Burning – Liquid Fuels	Y	
BAAQMD Regulation 9, Rule 9	Inorganic Gaseous Pollutants – Nitrogen Oxides from Stationary Gas Turbines (9/21/94)		
9-9-113	Exemption – Inspection/Maintenance	Y	
9-9-114	Exemption – Start-up and Shutdown Periods	Y	
9-9-301	Emission Limits – General	Y	
9-9-301.2	Emission Limits – Turbines over 10.0 MW without SCR	Y	
9-9-501	Monitoring & Recordkeeping	Y	
BAAQMD Manual of Procedures Volume V	Continuous Emission Monitoring Policy and Procedures (1/20/82)		
40 CFR Part 60	Standards of Performance for New Stationary Sources (12/23/71)	Y	
Subpart A	General Provisions	Y	
60.7	Notification and record keeping	Y	
60.8	Performance Tests	Y	
60.11	Compliance with standards and maintenance requirements	Y	
60.12	Circumvention	Y	
60.13	Monitoring Requirements	Y	
60.13(a)	Continuous monitoring systems	Y	

IV. Source-specific Applicable Requirements

Table IV-D
Source-specific Applicable Requirements
S-35: Gas Turbine

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.13(b)	Installation deadline	Y	
60.13(e)	Continuous operation	Y	
60.13(f)	Representative measurements	Y	
40CFR 60 Subpart GG	Standards of Performance for Stationary Gas Turbines (1/27/82)		
60.332	Standard for Nitrogen Oxides	Y	
60.332 (a)(1)	NOx Emission Standard – Turbines > 100 MMBTU/hr	Y	
60.333	Standard for Sulfur Dioxide	Y	
60.333 (a)	Sulfur Dioxide Emission Standard	Y	
60.333 (b)	Fuel Sulfur Limit	Y	
BAAQMD Cond #249			
part 1	Fuel Requirements [BACT, 40 CFR 60.333]	Y	
part 2	Fuel Sulfur Limit [Regulation 9-1-304]	Y	
part 3	NOx Limit [BACT]	Y	
part 5a	NOx Limit [Regulation 9-9-301.2]	Y	
part 5b	NOx Limit for turbine and duct burner combined [Regulation 2-1-403]	Y	
part 6	NOx and O2 Monitoring [BACT, Regulation 9-9-501]	Y	
part 7	Fuel Monitoring Requirement [Cumulative Increase]	Y	
part 8	Recordkeeping Requirements [BACT, Cumulative Increase, Regulation 9-1-304, Regulation 9-9-301.2]	Y	

IV. Source-specific Applicable Requirements

Table IV-E
Source-specific Applicable Requirements
S-36: Duct Burners

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (10/7/98)		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Monitors pursuant to Regulation 2-1-403	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operations	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-302	General Emissions Limitation	Y	
BAAQMD Manual of Procedures, Volume V	Continuous Emission Monitoring Policy and Procedures (1/20/82)	Y	
40 CFR 60	Standards of Performance for New Stationary Sources (12/23/71)		
Subpart A	General Provisions	Y	
60.7	Notification and record keeping	Y	
60.8	Performance Tests	Y	
60.11	Compliance with standards and maintenance requirements	Y	
60.12	Circumvention	Y	

IV. Source-specific Applicable Requirements

Table IV-E
Source-specific Applicable Requirements
S-36: Duct Burners

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.13	Monitoring Requirements	Y	
60.13(a)	Continuous monitoring systems	Y	
60.13(b)	Installation deadline	Y	
60.13(d)(1)	Daily calibration checks	Y	
60.13(e)	Continuous operation	Y	
60.13(f)	Representative measurements	Y	
40 CFR 60 Subpart Db	Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units (12/16/87)		
60.44b (a)(1)	Performance Standard, NO _x	Y	
60.46b (c)	Performance Testing, NO _x	Y	
BAAQMD Cond. #249			
part 1	Fuel Requirements [BACT]	Y	
part 4	NO _x Limit [BACT]	Y	
part 5b	NO _x Limit for turbine and duct burner combined [Regulation 2-1-403]	Y	
part 6	NO _x and O ₂ Monitoring [BACT, Regulation 9-9-501]	Y	
part 7	Fuel Metering Requirement [Cumulative Increase]	Y	
part 8	Recordkeeping Requirements [Cumulative Increase]	Y	

Table IV-F
Source-specific Applicable Requirements
S-46: Sandblasting Pot

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 12, Rule 4	Miscellaneous Standards of Performance – Sandblasting (7/11/90)	Y	

IV. Source-specific Applicable Requirements

Table IV-F
Source-specific Applicable Requirements
S-46: Sandblasting Pot

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
12-4-301	Ringelmann 1 Limitation	Y	
12-4-302	Ringelmann 2 Limitation	Y	
12-4-304	Performance Standards – Ringelmann 2	Y	
12-4-305	Performance Standards for Abrasives	Y	
12-4-306	Certification of Abrasives	Y	
12-4-308	Facility Blasting Operations	Y	
12-4-309	Stucco and Concrete	Y	
BAAQMD Cond #15799		Y	
part 1	Abrasive Performance Standards [Regulation 12-4-304]	Y	

Table IV-G
Source-specific Applicable Requirements
S-47: Paint Spray Operation

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 19	Organic Compounds – Surface Coating of Miscellaneous Metal Parts and Products (12/20/95)		
8-19-302	Coating VOC Limits	Y	
8-19-307	Prohibition of Specification	Y	
8-19-312	Specialty Coating VOC Limits	Y	
8-19-313	Spray Application Equipment Limitations	Y	
8-19-313.1	HVLP Spray; or	Y	
8-19-313.2	Electrostatic Spray; or	Y	
8-19-313.3	Detailing Gun; or	Y	
8-19-313.4	Other Method Approved in Writing by the APCO	Y	
8-19-320	Solvent Evaporative Loss Minimization	Y	
8-19-320.1	Storage and Disposal of Solvent Impregnated Cloth or Paper	Y	

IV. Source-specific Applicable Requirements

Table IV-G
Source-specific Applicable Requirements
S-47: Paint Spray Operation

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-19-320.2	No Organic Compounds for Cleanup of Spray Equipment Unless Controls are Used	Y	
8-19-320.3	Closed Containers for Coatings or Solvents Not in Use	Y	
8-19-501	Records	Y	
8-19-501.1	Maintain Data Necessary to Evaluate Compliance	Y	
8-19-501.2	Weekly Coating Usage Records	Y	
8-19-501.4	Monthly Cleaning Solvent Records	Y	
8-19-501.5	Records Retention	Y	

- 1 This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

V. SCHEDULE OF COMPLIANCE

The permit holder shall comply with all applicable requirements cited in this permit. The permit holder shall also comply with applicable requirements that become effective during the term of this permit.

VI. PERMIT CONDITIONS

Any condition that is preceded by an asterisk is not federally enforceable.

A. Source Specific Permit Conditions

Condition #249

For S-35, Gas Turbine; S-36, Duct Burners

1. The Gas Turbine (S-35), ~~and Duct Burners (S-36), shall be fired on natural gas~~ only fired exclusively with California Public Utilities Commission (PUC) standard natural gas-except during periods of curtailment. The Duct Burners (S-36), shall be fired exclusively with PUC standard natural gas during all periods of operation. (basis: BACT, Regulation 2-1-403) Standby fuels shall be:
 - ~~a. No. 2 Diesel for the gas turbine.~~
 - ~~b. No. 6 Fuel Oil, with a sulfur content not in excess of 0.5% by weight, for the duct burners.~~
2. Standby fuels combusted at S-35 during periods of curtailment shall have a maximum sulfur content <0.5% sulfur by weight. The maximum sulfur content of the fuels shall be demonstrated by vendor certification. (basis: Regulation 9-1-304)
23. The nitrogen oxide concentration from the Gas Turbine's exhaust shall not exceed 42 ppmvd @ 15% O₂ averaged over any consecutive 3 hour period, except during start-up periods not to exceed 4 hours. (basis: BACT)
34. The nitrogen oxide concentration from the Duct Burners exhaust shall not exceed 30 ppmvd @ 15% O₂ averaged over any consecutive 3 hour period. (basis: BACT)

VI. Permit Conditions

A. Source Specific Permit Conditions

Condition #249

For S-35, Gas Turbine; S-36, Duct Burners

45. Emissions of nitrogen oxides (NO_x) shall not exceed the following:
- When only S-35 is operating, 15 ppmvd @ 15% O₂ averaged over any rolling three hour average, except during startup or shutdown periods not to exceed 4 hours and 2 hours, respectively. (basis: Regulation 9-9-301.2)
 - When both S-35 and S-36 are operating, 19 ppmvd @ 15% O₂ averaged over any rolling three hour average, except during startup or shutdown periods not to exceed 4 hours and 2 hours, respectively. The owner/operator of S-35 and S-36 may petition the Air Pollution Control Officer to adjust the NO_x limits of this Condition Number 5 upward if it is demonstrated to the satisfaction of District staff that the thermal efficiency of S-35 is in excess of 25% per Regulation 9, Rule 9. (basis: Regulation 2-1-403)
56. The operator of S-35 and S-36 shall maintain District approved continuous emission monitors for nitrogen oxide (NO_x) and oxygen (O₂) at emission point P-5. Daily emissions of NO_x (calculated as NO₂) in lb/day shall be reported to the District on a monthly basis. (basis: BACT, Regulation 9-9-501)
- ~~6. The owner/operator of S-35 and S-36 shall install and operate a District approved totalizing fuel meter at each source S-35 and S-36. (basis: Cumulative Increase)~~
7. The owner/operator of S-35 and S-36 shall install and operate a continuous monitoring system to monitor and record the fuel consumption at each source. (basis: Cumulative Increase)
- ~~78.~~ The following records shall be maintained in a District approved log. These records shall be kept on site, summarized monthly, and made available for District inspection for a period of ~~24 months~~ 5 years from the date on which a record is made. (basis: BACT, Cumulative Increase, Regulation 9-1-304, Regulation 9-9-301.2)

VI. Permit Conditions

A. Source Specific Permit Conditions

Condition #249

For S-35, Gas Turbine; S-36, Duct Burners

- a. NO_x in ppmvd @ 15% O₂
- b. Amount of natural gas (therms) used at each source, S-35 and S-36
- c. Amount of oil (gallons) used at ~~each source, S-35 and S-36~~
- d. Hours of operation of each source, S-35 and S-36
- e. Number of startups and shutdowns
- f. Liquid fuel sulfur content

Condition #11264

For S-1, Steam Generator Boiler

1. S-1 Boiler shall ~~burn only~~ be fired exclusively with California Public Utilities Commission (PUC) standard natural gas. (basis: BACT)
2. NO_x emissions shall not exceed 9 ppm (reference 3% O₂, dry) averaged over any rolling three-hour period, except during periods of start-up or shutdown as defined below. (basis: BACT)
 - a. The duration of any start-up shall not exceed 6 hours. Start-up is that period of time during which S-1 boiler is put into normal operation from an inactive status with no fires by following a prescribed series of steps or operations.
 - b. The duration of any shutdown shall not exceed 2 hours. Shutdown is that period of time during which S-1 boiler is taken out of service from a normal operation to an inactive status with no fires by following a prescribed series of steps or operations.
3. CO emissions shall not exceed 50 ppm (reference 3% O₂, dry) averaged over any rolling three-hour period, except during periods of start-up or shutdown as defined below. (basis: BACT)

VI. Permit Conditions

A. Source Specific Permit Conditions

Condition #11264

For S-1, Steam Generator Boiler

- a. The duration of any start-up shall not exceed 6 hours. Start-up is that period of time during which S-1 boiler is put into normal operation from an inactive status with no fires by following a prescribed series of steps or operations.
 - b. The duration of any shutdown shall not exceed 2 hours. Shutdown is that period of time during which S-1 boiler is taken out of service from a normal operation to an inactive status with no fires by following a prescribed series of steps or operations.
- *4. Ammonia emissions shall not exceed 20 ppm (reference 3% O₂, dry) averaged over any rolling three-hour period. (basis: Toxic Risk Management)
 5. The total usage of natural gas shall not exceed 38,100,000 therms at S-1 Boiler in any consecutive twelve (12) month period. (basis: Cumulative Increase)
 6. S-1 Boiler shall be abated at all times of operation by the properly operated and properly maintained A-1 Selective Catalytic Reduction System. (basis: BACT)
 7. The total start-up time shall not exceed 624 hours in any consecutive twelve-month period. (basis: Cumulative Increase)
 8. The total shutdown time shall not exceed 208 hours in any consecutive twelve-month period. (basis: Cumulative Increase)
 9. The owner or operator of the Boiler S-1 shall install, calibrate, and operate a District approved continuous monitoring and recording system for nitrogen oxides, carbon monoxide, and either oxygen or carbon dioxide. The owner or operator shall also obtain District approval of the location and number of sampling ports and the minimum monitoring frequency. (basis: BACT)

VI. Permit Conditions

A. Source Specific Permit Conditions

Condition #11264

For S-1, Steam Generator Boiler

10. The owner or operator of the Boiler S-1 shall install and operate a District approved totalizing fuel meter. (basis: Cumulative Increase)
11. The following records shall be maintained in a District approved log. These records shall be kept on site, summarized monthly, and made available for District inspection for a period of ~~24 months~~ 5 years from the date on which a record is made. (basis: BACT, Cumulative Increase)
 - a. Amount of natural gas (therms) used at S-1 Boiler.
 - b. Hours of operation of S-1 Boiler.
 - c. Time and Duration of each startup and shutdown.

Condition #15799 (new condition added to establish periodic monitoring)

For S-46, Sandblasting Pot

1. In order to demonstrate compliance with the "Performance Standards" requirements of Regulation 12-4-304, the operator of the Sandblasting Pot S-46 shall keep records of the performance standard compliance option(s) used. A record shall be made in a District approved log each time S-46 is used at the facility and shall include the following:
 - a. date and time of sandblasting
 - b. material or object being sandblasted
 - c. performance standard(s) used to control particulate emissions

The log shall be kept on site and be available for inspection by District personnel upon request. All records shall be maintained for a period of 5 years from the date on which an entry was made. (basis: Regulation 12-4-304)

VI. Permit Conditions

A. Source Specific Permit Conditions

Condition #17195 (new condition added to establish periodic monitoring)
For S-31, Lime Storage Tank

1. Particulate matter emissions during loading operations at the Lime Storage Tank S-31, shall be controlled by the Baghouse A-7. (basis: Regulation 2-1-403)
2. The Baghouse A-7, shall be checked for visible emissions on an annual basis. The visible emissions check shall take place while the equipment is operating and during daylight hours. If any visible emissions are detected, the operator shall take corrective action, and check for visible emissions during the next loading event. If no visible emissions are detected, the operator shall continue to check for visible emissions every year. (basis: Regulation 2-1-403)
3. The operator shall keep records of all visible emissions checks, the person performing the check, and all maintenance performed on the Baghouse A-7. These records shall be retained for five (5) years and shall be made available to District personnel upon request. (basis: Regulation 2-6-501)

Condition #17196 (new condition added to establish periodic monitoring)
For Sources S-32, S-33, S-34: Starch Storage Silos

1. Particulate matter emissions during loading operations at the Starch Storage Silos S-32, S-33, and S-34, shall be controlled by the Baghouse A-8. (basis: Regulation 2-1-403)
2. The Baghouse A-8, shall be checked for visible emissions on an annual basis. The visible emissions check shall take place while the equipment is operating and during daylight hours. If any visible emissions are detected, the operator shall take corrective action, and check for visible emissions during the next loading event. If no visible emissions are detected, the operator shall continue to check for visible emissions every year. (basis: Regulation 2-1-403)
3. The operator shall keep records of all visible emissions checks, the person performing the check, and all maintenance performed on the Baghouse A-8. These records shall be retained for five (5) years and shall be made available to District personnel upon request. (basis: Regulation 2-6-501)

VI. Permit Conditions

A. Source Specific Permit Conditions

VII. APPLICABLE LIMITS AND COMPLIANCE MONITORING REQUIREMENTS

This section has been included only to summarize the applicable emission limits contained in Section IV, Source-Specific Applicable Requirements, of this permit. The following tables show the relationship between each emission limit and the associated compliance monitoring provisions, if any. The monitoring frequency indicates whether periodic (P) or continuous (C) monitoring is required. For periodic monitoring, the frequency of the monitoring has also been shown, either annual (A), quarterly (Q), monthly (M), daily (D), or on an event basis (E). No monitoring (N) has been required if the current applicable rule or regulation does not require monitoring, and the operation is unlikely to deviate from the applicable emission limit based upon the nature of the operation.

Table VII-A
Applicable Limits and Compliance Monitoring Requirements
S-1: Steam Generator Boiler

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
PM	BAAQM D 6-301	Y		Ringelmann 1.0		N	
	BAAQM D 6-310.3	Y		0.15 gr/dscf @ 6% O ₂		N	
	40 CFR 60 Subpart D, 60.42 (a)(1)	Y		0.10 lb/MMBTU		N	
	40 CFR 60 Subpart D, 60.42 (a)(2)	Y		20% opacity		N	
NO _x	BAAQM D 9-7-301.1	Y		30 ppmv @ 3% O ₂ (dry), 3 hr average	BAAQMD 1-520.1	C	C.E.M.

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII-A
Applicable Limits and Compliance Monitoring Requirements
S-1: Steam Generator Boiler

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NO _x	40 CFR 60 Subpart D, 60.44 (a)(1)	Y		0.20 lb/MM BTU, gaseous fossil fuel	Monitoring requirement subsumed by BAAQMD Permit Condition. See Permit Shield.	C	C.E.M.
	40 CFR 60 Subpart Db, 60.44b (a)(4)(i)	Y		0.20 lb/MMBTU (HHV), natural gas	Monitoring requirement subsumed by BAAQMD Permit Condition. See Permit Shield.	C	C.E.M.
	Condition #11264, part 2	Y		9 ppmv @ 3% O ₂ (dry) 3 hour rolling average	Condition #11264, part 9	C	C.E.M.
SO ₂	BAAQM D 9-1-301	Y		ground level concentrations: 0.5 ppm for 3 consecutive minutes, 0.25 ppm averaged over 60 consecutive minutes, 0.05 ppm averaged over 24 hours	BAAQMD 9-1-501	N	
	BAAQM D 9-1-302	Y		300 ppm (dry) general emission limitation		N	

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII-A
Applicable Limits and Compliance Monitoring Requirements
S-1: Steam Generator Boiler

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
CO	BAAQM D 9-7-301.2	Y		400 ppmv @ 3% O ₂ (dry)		N	
CO	Condition #11264, part 3	Y		50 ppmv @ 3% O ₂ (dry) 3 hour rolling average	Condition #11264, part 9	C	C.E.M.
Fuel Usage	Condition #11264, part 5	Y		38,100,000 therms/consecutive 12 months	Condition #11264, parts 5 & 10	C	Fuel meter
NH ₃	Condition #11264, part 4	N		20 ppmv @ 3% O ₂ (dry)		N	

Table VII-B
Applicable Limits and Compliance Monitoring Requirements
S-31: Lime Storage Tank

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
PM	Regulation 6-301	Y		Ringelmann 1.0	Condition #17195, part 2, 3	P/A	Visible emissions checks, Records for S-31
	Regulation 6-310	Y		0.15 gr/dscf		N	

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII-C
Applicable Limits and Compliance Monitoring Requirements
S-32, S-33, S-34: Starch Storage Silos #1, #2, and #3

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
PM	Regulation 6-301	Y		Ringelmann 1.0	Condition #17196, part 2, 3	P/A	Visible Emissions Checks, Records for S-32, S-33, S-34
	Regulation 6-310	Y		0.15 gr/dscf		N	

Table VII-D
Applicable Limits and Compliance Monitoring Requirements
S-35: Gas Turbine

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
PM	BAAQMD Regulation 6-301	Y		Ringelmann 1.0	None	N	
	BAAQMD Regulation 6-310	Y		0.15 gr/dscf @ 6% O ₂	None	N	
NO _x	BAAQMD 9-9-301.2	Y		15 ppmv @ 15% O ₂ (dry), 3 hr average	BAAQMD 9-9-501	C	C.E.M.

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII-D
Applicable Limits and Compliance Monitoring Requirements
S-35: Gas Turbine

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NO _x	40 CFR 60 Subpart GG, 60.332 (a)(1)	Y		83 ppmv @ 15% O ₂ (dry)	Monitoring requirement subsumed by BAAQMD Permit Condition. See Permit Shield.	C	C.E.M.
	Condition #249, part 5(a)	Y		15 ppmv @ 15% O ₂ (dry) 3 hour rolling average	Condition #249, part 8a	C	C.E.M.
	Condition #249, part 5(b)	Y		19 ppmv @ 15% O ₂ (dry) 3 hour rolling average for turbine and duct burner combined	Condition #249, part 8a	C	C.E.M.
SO ₂	BAAQM D 9-1-301	Y		ground level concentrations: 0.5 ppm for 3 consecutive minutes, 0.25 ppm averaged over 60 consecutive minutes, 0.05 ppm averaged over 24 hours	BAAQMD 9-1-501	N	
	BAAQM D 9-1-302	Y		300 ppm (dry) general emission limitation	None	N	

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII-D
Applicable Limits and Compliance Monitoring Requirements
S-35: Gas Turbine

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO2	BAAQM D 9-1-304			0.5% sulfur limit for liquid fuel	BAAQMD Condition #249 part 2, part 8	P/E	Liquid fuel usage records, vendor fuel certification
SO2	40 CFR 60 Subpart GG, 60.333 (a)	Y		0.015% (vol) @ 15% O ₂ (dry)	Monitoring requirement subsumed by BAAQMD Permit Condition. See Permit Shield.	P/E	Liquid fuel usage records, vendor fuel certification
	40 CFR 60 Subpart GG, 60.333 (b)	Y		0.8 % sulfur in fuel by weight	Monitoring requirement subsumed by BAAQMD Permit Condition. See Permit Shield.	P/E	Liquid fuel usage records, vendor fuel certification

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII-E
Applicable Limits and Compliance Monitoring Requirements
S-36: Duct Burners

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
PM	BAAQM D Regulation 6-301	Y		Ringelmann 1.0	None	N	
	BAAQM D Regulation 6-310	Y		0.15 gr/dscf @ 6% O ₂	None	N	
NO _x	40 CFR 60 Subpart Db, 60.44b (a)(4)(i)	Y		0.20 lb/MMBTU, natural gas		N	
	Condition #249, part 4	Y		30 ppmv @ 15% O ₂ (dry) 3 hour rolling average	Condition #249, part 8a	C	C.E.M.
	Condition #249, part 5(b)	N		19 ppmv @ 15% O ₂ (dry) 3 hour rolling average for turbine and duct burner combined	Condition #249, part 8a	C	C.E.M.

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII-E
Applicable Limits and Compliance Monitoring Requirements
S-36: Duct Burners

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO ₂	BAAQM D 9-1-301	Y		ground level concentrations: 0.5 ppm for 3 consecutive minutes, 0.25 ppm averaged over 60 consecutive minutes, 0.05 ppm averaged over 24 hours	BAAQMD 9-1-501	N	
	BAAQM D 9-1-302	Y		300 ppm (dry) general emission limitation	None	N	
SO ₂	BAAQM D 9-1-304			0.5% sulfur limit for liquid fuel	BAAQMD Condition #249 part 2, part 8		Liquid fuel usage records, vendor fuel certification

Table VII-F
Applicable Limits and Compliance Monitoring Requirements
S-46: Sandblasting Pot

Pollutant	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
PM	BAAQM D 12-4-301	Y		Ringelmann No. 1 <3 min/hr		N	
	BAAQM D 12-4-302	Y		Ringelmann No. 2 <3 min/hr		N	

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII-G
Applicable Limits and Compliance Monitoring Requirements
S-47: Paint Spray Operation

Pollutant	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD Regulation 8-19-302.1	Y		Baked Coatings: 275 g/l (2.3 lb/gal)	BAAQMD Regulation 8-19-501	P/W	Record Keeping
VOC	BAAQMD Regulation 8-19-302.2	Y		Air-Dried Coatings: 340 g/l (2.8 lb/gal)	BAAQMD Regulation 8-19-501	P/W	Record Keeping
	BAAQMD Regulation 8-19-312.1 to 312.13	Y		Specialty Coatings, Air-dried coating limits: 420 g/l or 3.5 lb/gal	BAAQMD Regulation 8-19-501	P/W	Record Keeping
	BAAQMD Regulation 8-19-312.1, 312.2, 312.3, 312.5, 312.9	Y		Specialty Coatings, Baked coating limits: 360 g/l or 3.0 lb/gal	BAAQMD Regulation 8-19-501	P/W	Record Keeping

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII-G
Applicable Limits and Compliance Monitoring Requirements
S-47: Paint Spray Operation

Pollutant	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	BAAQM D Regulation 8-19-312.4, 312.7, 312.8, 312.12, 312.13	Y		Specialty Coatings, Baked coating limits: 420 g/l or 3.5 lb/gal)	BAAQMD Regulation 8-19-501	P/W	Record Keeping

VIII. TEST METHODS

The test methods associated with the emission limit of a District regulation are generally referenced in Section 600 of the regulation. The following table indicates only the test methods associated with the emission limits referenced in Section VII, Applicable Emission Limits & Compliance Monitoring Requirements, of this permit.

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD 8-19-302, 312	Surface Coating, VOC Content	Manual of Procedures, Volume III; Method 21, Determination of Compliance of Volatile Organic Compounds for Water Reducible Coatings; or Method 22, Determination of Compliance of Volatile Organic Compounds for Solvent Based Coatings
BAAQMD 8-19-302, 312, 313	Determination of VOC Emissions	Manual of Procedures, Volume IV, ST-7, Organic Compounds; or EPA Method 25, Determination of Total Gaseous Nonmethane Organic Emissions as Carbon; or EPA Method 25A, Determination of Total Gaseous Nonmethane Organic Emissions Using a Flame Ionization Analyzer
BAAQMD 9-7-301.1	Performance Standard, NO _x , Gaseous Fuel	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD 9-7-301.2	Performance Standard, CO, Gaseous Fuel	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD 9-7-403	Initial Compliance Demonstration	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD 9-9-301.2	Emission Limits- Turbines Rated ≥ 10 MW w/o SCR	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD 9-9-503.2	Deadline for Demonstration of Compliance with §9-9-301	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD Cond. #249		
part 3	NOx Limit [BACT]	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
part 4	NOx Limit [BACT]	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
part 5a	NOx Limit [Regulation 9-9-301.2]	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
part 5b	NOx Limit for turbine and duct burner combined	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD Cond #11264		
part 2	NOx Limit [BACT]	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
part 3	CO Limit [BACT]	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
part 5	Ammonia Limit [Toxic Risk Management]	Manual of Procedures, Volume IV, ST-1B, Ammonia, Integrated Sampling
40 CFR 60 Subpart D	Standards of Performance for Fossil-Fuel-Fired Steam Generators (7/25/77)	
60.42 (a)(1)	PM Mass Emission Rate	EPA Method 5, Determination of Particulate Emissions from Stationary Sources
60.42 (a)(2)	PM Opacity Limit	EPA Method 9, Visual Determination of the Opacity of Emissions from Stationary Sources
60.44 (a)(1)	NOx Limit - Gaseous Fuels	EPA Method 7, Determination of Nitrogen Oxide Emissions from Stationary Sources

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
40 CFR 60 Subpart Db	Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units (12/16/87)	
60.43b (f)	Opacity Limits for Oil Firing	EPA Method 9, Visual Determination of the Opacity of Emissions from Stationary Sources
60.44b (a)(1)	Performance Standard, NO _x	EPA Method 20, Determination of Nitrogen Oxides, Sulfur Dioxide, and Diluent Emissions from Stationary Gas Turbines
40 CFR 60 Subpart GG	Standards of Performance for Stationary Gas Turbines (1/27/82)	
60.332 (a)(1)	Performance Standard, NO _x	EPA Method 20, Determination of Nitrogen Oxides, Sulfur Dioxide, and Diluent Emissions from Stationary Gas Turbines
60.333 (a)	SO ₂ Volumetric Emission Limit	EPA Method 20, Determination of Nitrogen Oxides, Sulfur Dioxide, and Diluent Emissions from Stationary Gas Turbines
60.333 (b)	Fuel Sulfur Limit (fuel oils)	ASTM D 2880-71, Standard Specification for Gas Turbine Fuel Oils
60.333 (b)	Fuel Sulfur Limit (gaseous fuel)	ASTM D 1072-80, Standard Method for Total Sulfur in Fuel Gases ASTM D 3031-81, Standard Test Method for Total Sulfur in Natural Gas by Hydrogenation
60.334 (b)	Fuel Sulfur and Nitrogen Content	ASTM D 2880-71, Standard Specification for Gas Turbine Fuel Oils

IX. PERMIT SHIELD

A. SUBSUMED REQUIREMENTS

Pursuant to District Regulations 2-6-233 and 2-6-409.12, as of the date this permit is issued, the federally enforceable “subsumed” regulations and/or standards cited in the following table are not applicable to the source or group of sources identified at the top of the table. The District has determined that compliance with the “streamlined” requirements listed below and elsewhere in this permit will assure compliance with the substantive requirements of the “subsumed” regulations and/or standards. Enforcement actions and litigation may not be initiated against the source or group of sources covered by this shield based on the “subsumed” regulatory and/or statutory provisions cited.

Table IX-A
S-1: Steam Generator Boiler

Subsumed Requirement Citation	Title or Description	Streamlined Requirements	Title or Description
40 CFR 60 Subpart D	Standards of Performance for Fossil-Fuel-Fired Steam Generators		
60.45 (a)	Continuous Emission Monitoring for NO _x	BAAQMD Condition 11264, part 9	Continuous Emission Monitoring for NO _x (BACT Limit)
40 CFR 60 Subpart Db	Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units		
60.48b (b)	Continuous Emission Monitoring for NO _x	BAAQMD Condition 11264, part 9	Continuous Emission Monitoring for NO _x (BACT Limit)

IX. Permit Shield (continued)

Table IX-B
S35: Gas Turbine

Subsumed Requirement Citation	Title or Description	Streamlined Requirements	Title or Description
40CFR 60 Subpart GG	Standards of Performance for Stationary Gas Turbines		
60.334 (a)	Fuel-to-water monitoring	BAAQMD Condition 249, part 6	Continuous Emission Monitoring for NOx
60.334 (b)(1)	Fuel Sulfur monitoring (liquid fuels)	BAAQMD Condition 249, part 2	Requirement for use of low sulfur liquid fuels for emergency standby operation
60.334 (b)(1)	Fuel Nitrogen Content monitoring (liquid fuels)	BAAQMD Condition 249, part 6	Continuous Emission Monitoring for NOx
60.334 (b)(2)	Fuel Sulfur and Nitrogen Content monitoring (natural gas)	BAAQMD Condition 249, part 1	Requirement for use of PUC quality natural gas
60.334 (c)(1)	Periods of excess emissions, NOx, natural gas	BAAQMD Condition 249, part 6	Continuous Emission Monitoring for NOx
60.334 (c)(2)	Periods of excess emissions, SO2, fuel oil	BAAQMD Condition 249, part 2	Requirement for use of low sulfur liquid fuels for emergency standby operation
60.334 (c)(2)	Periods of excess emissions, SO2, natural gas	BAAQMD Condition 249, part 1	Requirement for use of PUC quality natural gas

IX. Permit Shield (continued)

X. GLOSSARY

BAAQMD

Bay Area Air Quality Management District

BACT

Best Available Control Technology

BARCT

Best Available Retrofit Control Technology

CAA

The federal Clean Air Act

CAAQS

California Ambient Air Quality Standards

C.E.M.

Continuous Emission Monitor

CEQA

California Environmental Quality Act

CFR

The Code of Federal Regulations. 40 CFR contains the implementing regulations for federal environmental statutes such as the Clean Air Act. Parts 50-99 of 40 CFR contain the requirements for air pollution programs.

CO

Carbon Monoxide

Cumulative Increase

The sum of permitted emissions from each new or modified source since a specified date pursuant to BAAQMD Rule 2-1-403, Permit Conditions (as amended by the District Board on 7/17/91) and SIP Rule 2-1-403, Permit Conditions (as approved by EPA on 6/23/95). Used to determine whether threshold-based requirements are triggered.

District

The Bay Area Air Quality Management District

EPA

IX. Glossary

The federal Environmental Protection Agency.

Excluded

Not subject to any District Regulations.

Federally Enforceable, FE

All limitations and conditions which are enforceable by the Administrator of the EPA including those requirements developed pursuant to 40 CFR Part 51, subpart I (NSR), Part 52.21 (PSD), Part 60, (NSPS), Part 61, (NESHAPS), Part 63 (HAP), and Part 72 (Permits Regulation, Acid Rain), and also including limitations and conditions contained in operating permits issued under an EPA-approved program that has been incorporated into the SIP.

HAP

Hazardous Air Pollutant. Any pollutant listed pursuant to Section 112(b) of the Act. Also refers to the program mandated by Title I, Section 112, of the Act and implemented by both 40 CFR Part 63, and District Regulation 2, Rule 5.

Major Facility

A facility with potential emissions of regulated air pollutants greater than or equal to 100 tons per year, greater than or equal to 10 tons per year of any single hazardous air pollutant, and/or greater than or equal to 25 tons per year of any combination of hazardous air pollutants, or such lesser quantity as determined by the EPA administrator.

MFR

Major Facility Review. The District's term for the federal operating permit program mandated by Title V of the Act and implemented by District Regulation 2, Rule 6.

MOP

The District's Manual of Procedures.

NAAQS

National Ambient Air Quality Standards

NESHAPS

National Emission Standards for Hazardous Air Pollutants. Contained in 40 CFR Part 61.

NMHC

Non-methane Hydrocarbons

NO_x

Oxides of nitrogen.

IX. Glossary

NSPS

Standards of Performance for New Stationary Sources. Federal standards for emissions from new stationary sources. Mandated by Title I, Section 111 of the Act, and implemented by both 40 CFR Part 60 and District Regulation 10.

NSR

New Source Review. A federal program for preconstruction review and permitting of new and modified sources of air pollutants for which the District is classified "non-attainment". Mandated by Title I of the Clean Air Act and implemented by 40 CFR Parts 51 and 52 as well as District Regulation 2, Rule 2. (Note: There are additional NSR requirements mandated by the California Clean Air Act.)

Offset Requirement

A New Source Review requirement to provide federally enforceable emission offsets at a specified ratio for the emissions from a new or modified source and any pre-existing cumulative increase minus any onsite contemporaneous emission reduction credits. Applies to emissions of POC, NO_x, PM₁₀, and SO₂.

Phase II Acid Rain Facility

A facility that generates electricity for sale through fossil-fuel combustion and by virtue of certain other characteristics (defined in Regulation 2, Rule 6) is subject to Titles IV and V of the Clean Air Act.

POC

Precursor Organic Compounds

PM

Total Particulate Matter

PM₁₀

Particulate matter with aerodynamic equivalent diameter of less than or equal to 10 microns

PSD

Prevention of Significant Deterioration. A federal program for permitting new and modified sources of air pollutants for which the District is classified "attainment" of the National Air Ambient Quality Standards. Mandated by Title I of the Act and implemented by both 40 CFR Part 52 and District Regulation 2, Rule 2.

IX. Glossary

SIP

State Implementation Plan. State and District programs and regulations approved by EPA and developed in order to attain the National Air Ambient Quality Standards. Mandated by Title I of the Act.

SO₂

Sulfur dioxide

Title V

Title V of the federal Clean Air Act. Requires a federally enforceable operating permit program for major and certain other facilities.

TSP

Total Suspended Particulate

VOC

Volatile Organic Compounds

Units of Measure:

bhp	=	brake-horsepower
Btu	=	British Thermal Unit
g	=	grams
gal	=	gallon
hp	=	horsepower
hr	=	hour
lb	=	pound
in	=	inches
max	=	maximum
m ²	=	square meter
min	=	minute
MM	=	million
ppmv	=	parts per million, by volume
ppmw	=	parts per million, by weight
psia	=	pounds per square inch, absolute
psig	=	pounds per square inch, gauge
scfm	=	standard cubic feet per minute
yr	=	year

X. APPENDIX A - APPLICABLE STATE IMPLEMENTATION PLAN

See Attachments